

ABSTRACT OF THE INVENTION

An imaging system, methodology, and various applications are provided to facilitate optical imaging performance. The system contains a sensor having one or more receptors and an image transfer medium to scale the sensor and receptors in accordance with resolvable
5 characteristics of the medium, and as defined with certain ratios. A computer, memory, and/or display associated with the sensor provides storage and/or display of information relating to output from the receptors to produce and/or process an image, wherein a plurality of illumination sources can also be utilized in conjunction with the image transfer medium. The image transfer medium can be configured as a k-space filter that correlates receptor size
10 to a diffraction-limited spot associated with the image transfer medium, wherein the receptor size can be unit-mapped within a certain ratio to the size of the diffraction-limited spot.